



PCT10

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/10/089,986

DATE: 04/25/2002
 TIME: 11:51:22

Input Set : A:\EP.txt
 Output Set: N:\CRF3\04252002\J089986.raw

3 <110> APPLICANT: KUROSAWA, Keiko
 4 KAJIYAMA, Naoki
 6 <120> TITLE OF INVENTION: GENE ENCODING PROTEIN HAVING THE ABILITY TO REGENERATE
 LUCIFERIN, NOVEL
 7 RECOMBINANT DNA, PROCESS FOR THE PREPARATION OF PROTEIN HAVING THE ABILITY TO
 8 REGENERATE LUCIFERIN
 10 <130> FILE REFERENCE: 221609US0PCT
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/089,986
 C--> 12 <141> CURRENT FILING DATE: 2002-04-08
 12 <150> PRIOR APPLICATION NUMBER: PCT/JP00/06527
 13 <151> PRIOR FILING DATE: 2000-09-22
 15 <150> PRIOR APPLICATION NUMBER: JP285258/1999
 16 <151> PRIOR FILING DATE: 1999-10-06
 18 <160> NUMBER OF SEQ ID NOS: 11
 20 <170> SOFTWARE: PatentIn version 3.1
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 924
 24 <212> TYPE: DNA
 25 <213> ORGANISM: Photinus pyralis
 27 <220> FEATURE:
 28 <221> NAME/KEY: misc_feature
 29 <222> LOCATION: (843)..(843)
 30 <223> OTHER INFORMATION: n is a, g, t, or c
 33 <400> SEQUENCE: 1
 34 atggggccag ttgttgaaaa aattgcagaa cttggcaagt atacggttgg agaaggtcct 60
 36 cactgggcatc atgaaactca gacottatat ttcgtcgaca ccgtagagaa aacttttcat 120
 38 aaatatgtac cttctcagaa aaaatacacg ttttgtaaag tagataaact ggtttctttc 180
 40 attattcccc ttgctggatc ccctggccgt tttgtagtca gtttggaacg tgaaatagcc 240
 42 attcttacat gggatggcgt tagtgctgca cctacaagca tagaagctat tgttaatgtc 300
 44 gaaccacaca ttaaaaaataa cagactcaat gatggcaaaag cagatccctt tggcaatcta 360
 46 tggacaggta caatggctat tgacgttggt ctccccgtag gaccggtcac tggcagttta 420
 48 tatcatttag gggetgataa aaaggtaaaa atgcaagaga gcaacatagc tatagcaaat 480
 50 gggctcgcgt ggagtaatga tttgaagaaa atgtattata ttgattcggg gaaaagaaga 540
 52 gtagacgagt acgattatga tgcttctaca ttatccatca gcaatcaacg gccattatit 600
 54 acttttgaaa agcatgaagt gcctggatat ccagatggtc aaacaattga tgaggagggt 660
 56 aatttatggg ttgccgtttt ccaaggacag cgaattatta aaatcagtag ccaacaaccg 720
 58 gaagtgttac tggataccgt aaaaatacca gatcctcagg tcacctctgt agcatttggc 780
 60 ggtccgaatt tggatgaact gcatgtaaca tctgctggtc ttcagcttga cgacagttct 840
 W--> 62 ttngacaaaa gtttagttaa tgggcacgtc tacagagtaa cagggttagg cgtcaaaggt 900
 64 ttcgcgggag ttaaagtga gcta 924
 67 <210> SEQ ID NO: 2
 68 <211> LENGTH: 308
 69 <212> TYPE: PRT
 70 <213> ORGANISM: Photinus pyralis

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72 <400> SEQUENCE: 2
74 Met Gly Pro Val Val Glu Lys Ile Ala Glu Leu Gly Lys Tyr Thr Val
75 1 5 10 15
78 Gly Glu Gly Pro His Trp Asp His Glu Thr Gln Thr Leu Tyr Phe Val
79 20 25 30
82 Asp Thr Val Glu Lys Thr Phe His Lys Tyr Val Pro Ser Gln Lys Lys
83 35 40 45
86 Tyr Thr Phe Cys Lys Val Asp Lys Leu Val Ser Phe Ile Ile Pro Leu
87 50 55 60
90 Ala Gly Ser Pro Gly Arg Phe Val Val Ser Leu Glu Arg Glu Ile Ala
91 65 70 75 80
94 Ile Leu Thr Trp Asp Gly Val Ser Ala Ala Pro Thr Ser Ile Glu Ala
95 85 90 95
98 Ile Val Asn Val Glu Pro His Ile Lys Asn Asn Arg Leu Asn Asp Gly
99 100 105 110
102 Lys Ala Asp Pro Leu Gly Asn Leu Trp Thr Gly Thr Met Ala Ile Asp
103 115 120 125
106 Ala Gly Leu Pro Val Gly Pro Val Thr Gly Ser Leu Tyr His Leu Gly
107 130 135 140
110 Ala Asp Lys Lys Val Lys Met His Glu Ser Asn Ile Ala Ile Ala Asn
111 145 150 155 160
114 Gly Leu Ala Trp Ser Asn Asp Leu Lys Lys Met Tyr Tyr Ile Asp Ser
115 165 170 175
118 Gly Lys Arg Arg Val Asp Glu Tyr Asp Tyr Asp Ala Ser Thr Leu Ser
119 180 185 190
122 Ile Ser Asn Gln Arg Pro Leu Phe Thr Phe Glu Lys His Glu Val Pro
123 195 200 205
126 Gly Tyr Pro Asp Gly Gln Thr Ile Asp Glu Glu Gly Asn Leu Trp Val
127 210 215 220
130 Ala Val Phe Gln Gly Gln Arg Ile Ile Lys Ile Ser Thr Gln Gln Pro
131 225 230 235 240
134 Glu Val Leu Leu Asp Thr Val Lys Ile Pro Asp Pro Gln Val Thr Ser
135 245 250 255
138 Val Ala Phe Gly Gly Pro Asn Leu Asp Glu Leu His Val Thr Ser Ala
139 260 265 270
142 Gly Leu Gln Leu Asp Asp Ser Ser Leu Asp Lys Ser Leu Val Asn Gly
143 275 280 285
146 His Val Tyr Arg Val Thr Gly Leu Gly Val Lys Gly Phe Ala Gly Val
147 290 295 300
150 Lys Val Lys Leu
151 305
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155 <211> LENGTH: 24
156 <212> TYPE: DNA
157 <213> ORGANISM: Artificial Sequence
159 <220> FEATURE:
160 <223> OTHER INFORMATION: synthetic DNA
162 <400> SEQUENCE: 3
163 gttggagaag gaccgatttg ggat

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166 <210> SEQ ID NO: 4
167 <211> LENGTH: 29
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169 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: synthetic DNA
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178 <210> SEQ ID NO: 5
179 <211> LENGTH: 20
180 <212> TYPE: DNA
181 <213> ORGANISM: Artificial Sequence
183 <220> FEATURE:
184 <223> OTHER INFORMATION: synthetic DNA
186 <400> SEQUENCE: 5
187 gaacaggtac aatggctatt
190 <210> SEQ ID NO: 6
191 <211> LENGTH: 20
192 <212> TYPE: DNA
193 <213> ORGANISM: Artificial Sequence
195 <220> FEATURE:
196 <223> OTHER INFORMATION: synthetic DNA
198 <400> SEQUENCE: 6
199 atcgtactcg tctactcttc
202 <210> SEQ ID NO: 7
203 <211> LENGTH: 22
204 <212> TYPE: DNA
205 <213> ORGANISM: Artificial Sequence
207 <220> FEATURE:
208 <223> OTHER INFORMATION: synthetic DNA
210 <400> SEQUENCE: 7
211 taggtgcagc actaacgcc a tc
214 <210> SEQ ID NO: 8
215 <211> LENGTH: 21
216 <212> TYPE: DNA
217 <213> ORGANISM: Artificial Sequence
219 <220> FEATURE:
220 <223> OTHER INFORMATION: synthetic DNA
222 <400> SEQUENCE: 8
223 ttcacgttcc aaactgacta c
226 <210> SEQ ID NO: 9
227 <211> LENGTH: 23
228 <212> TYPE: DNA
229 <213> ORGANISM: Artificial Sequence
231 <220> FEATURE:
232 <223> OTHER INFORMATION: synthetic DNA
234 <400> SEQUENCE: 9
235 ctgcggtgga gtaatgattt gaa
238 <210> SEQ ID NO: 10

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239 <211> LENGTH: 33
240 <212> TYPE: DNA
241 <213> ORGANISM: Artificial Sequence
243 <220> FEATURE:
244 <223> OTHER INFORMATION: synthetic DNA
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247 ggaattcatg gggccagttg ttgaaaaaat tgc
250 <210> SEQ ID NO: 11
251 <211> LENGTH: 35
252 <212> TYPE: DNA
253 <213> ORGANISM: Artificial Sequence
255 <220> FEATURE:
256 <223> OTHER INFORMATION: synthetic DNA
258 <400> SEQUENCE: 11 35
259 aactgcagtc atagcttcac tttaactccc gcgaa

RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 843

VERIFICATION SUMMARY

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:62 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:840